

**WASHINGTON STATE DEPARTMENT OF HEALTH
OFFICE OF FOOD SAFETY AND SHELLFISH PROGRAMS**

ANNUAL GROWING AREA REVIEW

PREPARED BY: Donald J. Melvin, Environmental Specialist

AREA: Henderson Bay

YEAR ENDING: December 31, 2005

CLASSIFICATION: Approved, Restricted

ACTIVITIES IN THE GROWING AREA IN 2005:

Henderson Bay was sampled 6 times during 2005 in accordance with the NSSP systematic random sampling criteria. Shellfish were relayed from the "restricted" area inside Minter Bay to the "approved" area on the outside of the Minter Bay sand spit. Portions of the area were closed for a total of 45 days due to high biotoxin levels. The "approved" area in the vicinity of station #305 has been closed temporarily due to high bacteria counts in samples collected from a stream that flows into the area. Pollution sources investigation are in progress.

ANALYTICAL RESULTS OF WATER SAMPLES:

Table #1 summarizes the results of the most recent 30 water samples collected from the area. This summary shows that all stations pass the NSSP approved water quality standard. Table #1 shows that station #312 has an estimated 90th percentile of 40 based on the most recent 43 samples from the area. When the most recent 30 samples from this station are examined the station has an estimated 90th percentile of 26 which is cause for listing it as of concern.

CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:

We currently have no information indicating that the area has new sources of pollution.

CLASSIFICATION STATUS:

- Well within the classification standards
- Meets standards but some concerns
- Meets standards but threatened with a downgrade in classification
- Fails to meet classification standards

REMARKS AND RECOMMENDATIONS:

Henderson Bay is part of Carr Inlet which is on the 303d list for fecal coliform. Minter Creek is also on the 303D list for fecal coliform. Table #1 shows that all stations meet the NSSP "approved" water quality standards. The area is appropriately classified.

TABLE 1

SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: HENDERSON BAY

Classification: **Approved,Restricted,Unclassified**

From **01/18/2001** To **12/21/2005**

FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
300	Approved	32	1.7 - 13.0	2.4	4.0	Yes
301	Approved	32	1.7 - 17.0	2.5	5.0	Yes
302	Approved	32	1.7 - 4.5	2.0	3.0	Yes
303	Approved	30	1.7 - 33.0	3.0	8.0	Yes
305	Approved	32	1.7 - 70.0	3.9	13.0	Yes
309	Approved	32	1.7 - 7.8	1.8	2.0	Yes
310	Approved	32	1.7 - 4.5	1.8	2.0	Yes
311	Approved	43	1.7 - 70.0	5.6	26.0	Yes
312	Approved	43	1.7 - 350.0	5.7	40.0	Yes
306	Restricted	32	1.7 - 240.0	12.6	71.0	Yes
307	Restricted	32	1.7 - 110.0	8.5	39.0	Yes
308	Restricted	32	1.7 - 240.0	7.1	33.0	Yes
297	Unclassified	32	1.7 - 22.0	2.3	5.0	Yes
298	Unclassified	32	1.7 - 22.0	2.6	6.0	Yes
299	Unclassified	32	1.7 - 540.0	4.2	24.0	Yes
304	Unclassified	32	1.7 - 33.0	3.2	13.0	Yes
601	Unclassified	19	1.7 - 7.8	2.0	3.0	*N/A
636	Unclassified	19	1.7 - 4.5	1.9	2.0	*N/A
653	Unclassified	21	1.7 - 33.0	2.4	6.0	*N/A
678	Unclassified	17	1.7 - 13.0	2.4	4.0	*N/A

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

* N/A - SRS criteria require a minimum of 30 samples from each station. *

† All samples have been verified.

HENDERSON BAY

STATION LOCATIONS AND CLASSIFICATION BOUNDARIES

